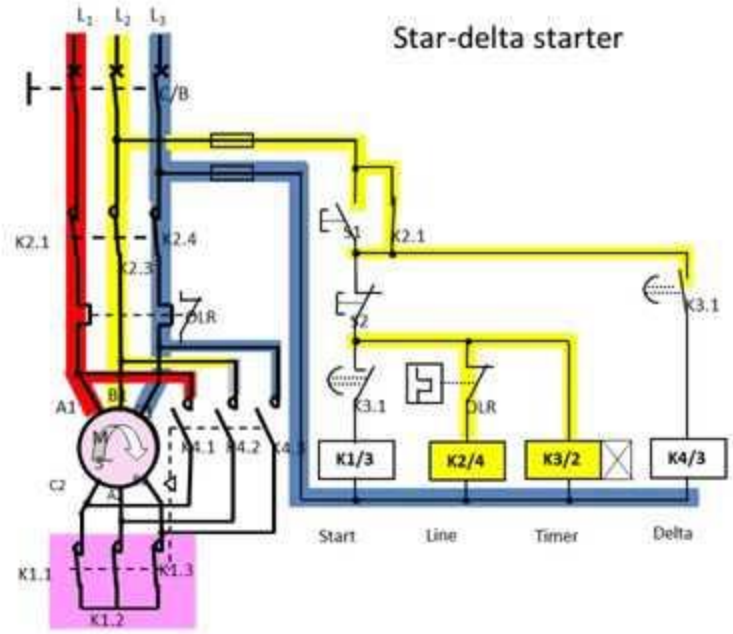
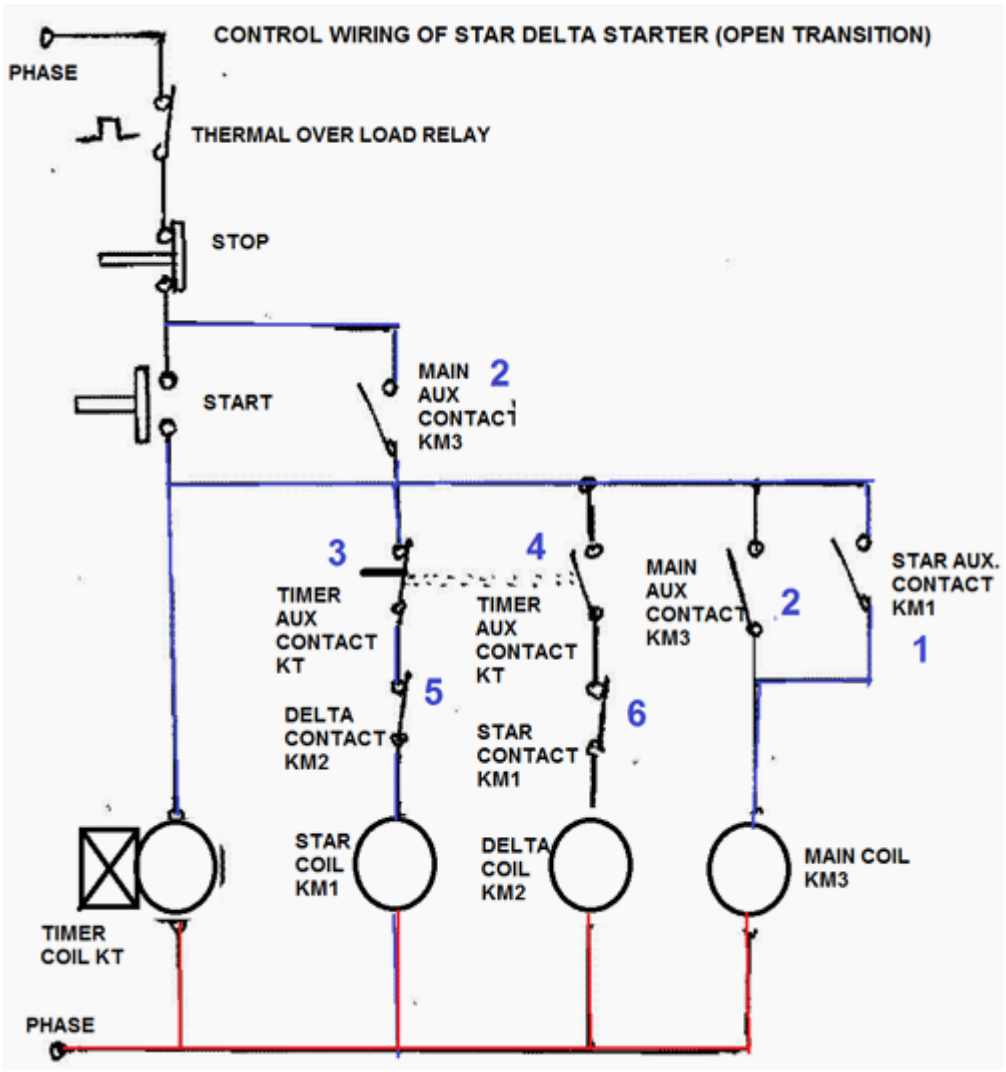
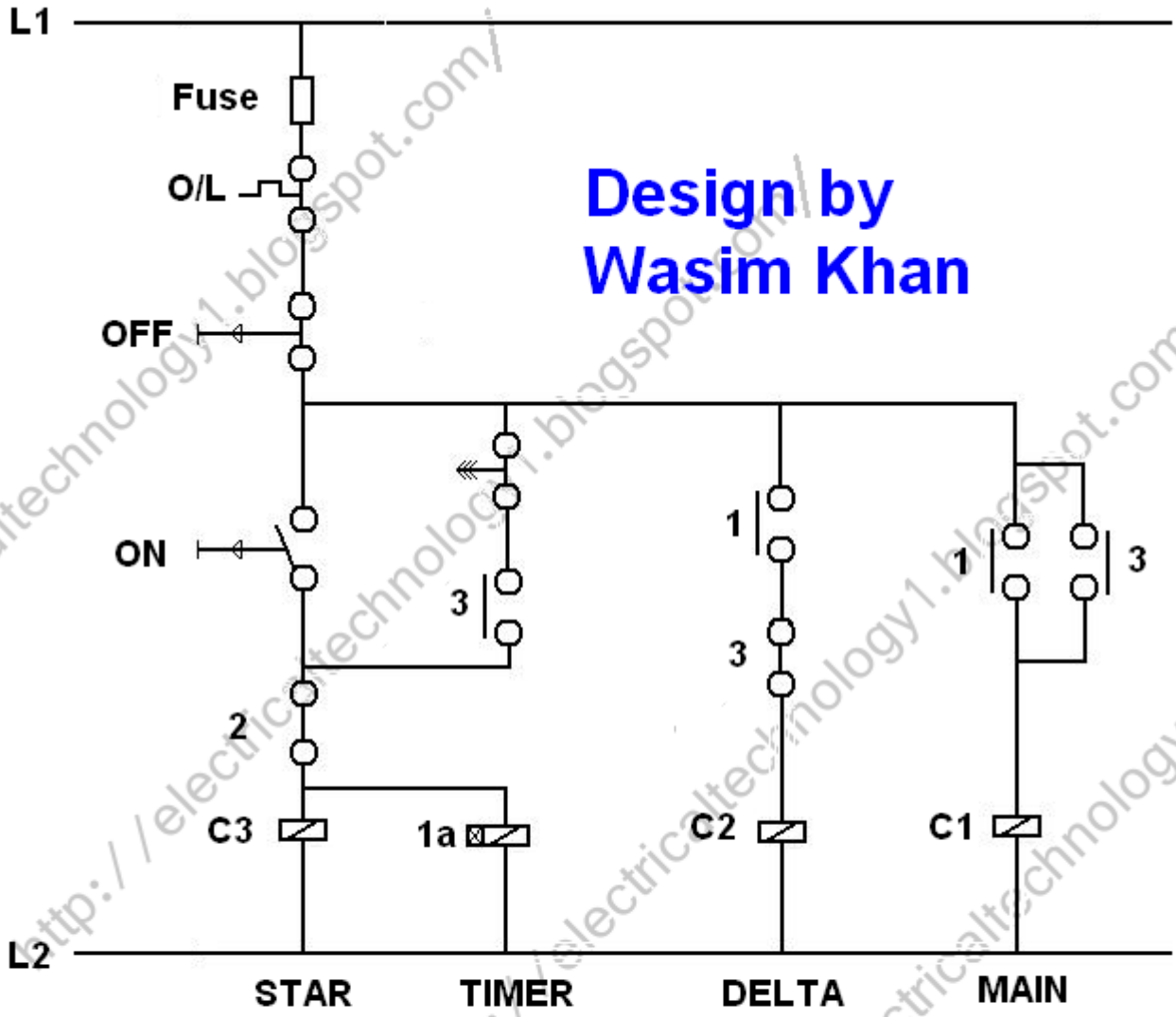
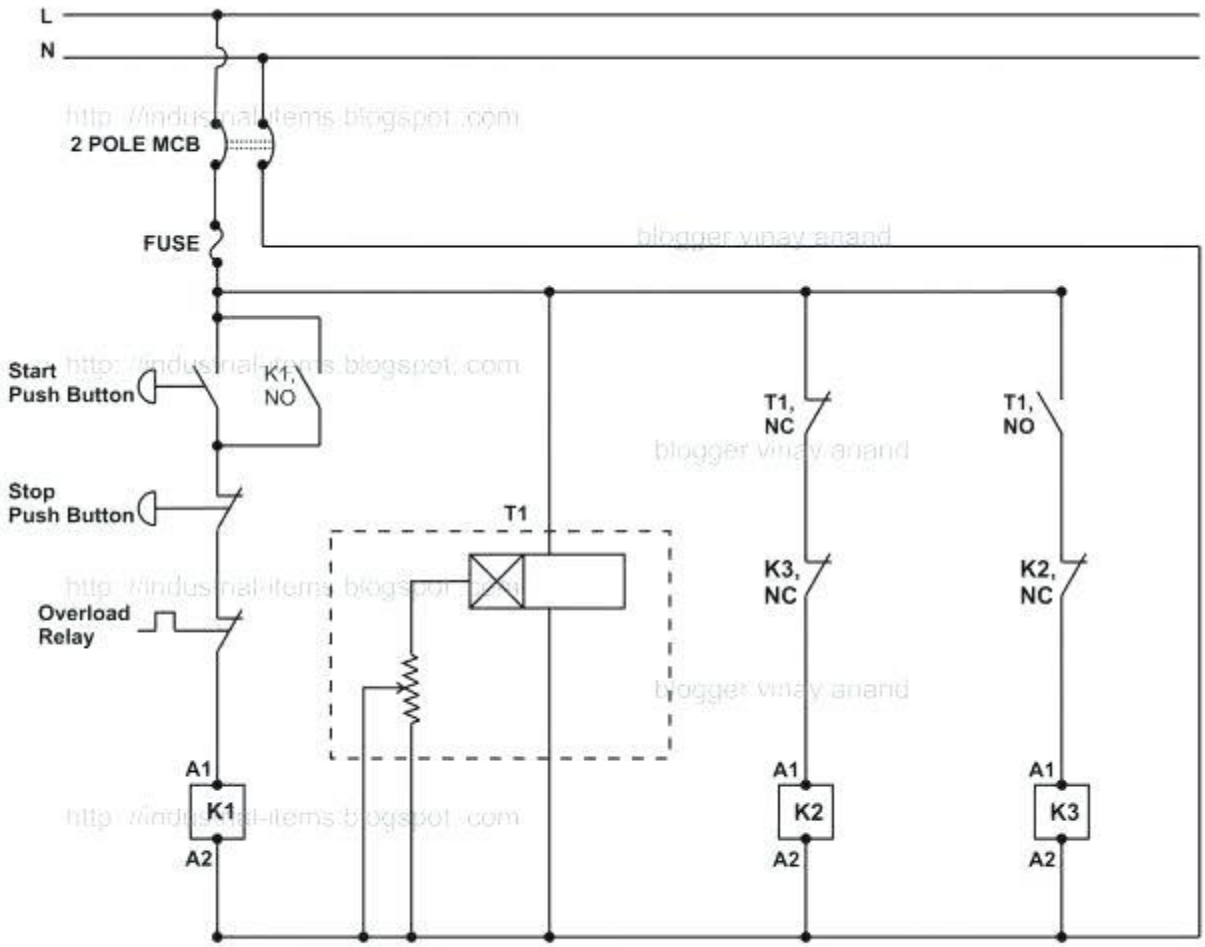

Star-delta starter
L1 L2 L3
C/B
K2.1
K2.4
K2.3
DLR
A1
B1
M
3~
A2
C2
K4.1
K4.2
K4.3
K1.1
K1.3
K1.2
S1
K2.1
S2
K3.1
K3.1
DLR
K1/3
K2/4
K3/2
K4/3
Start
Line
Timer
Delta

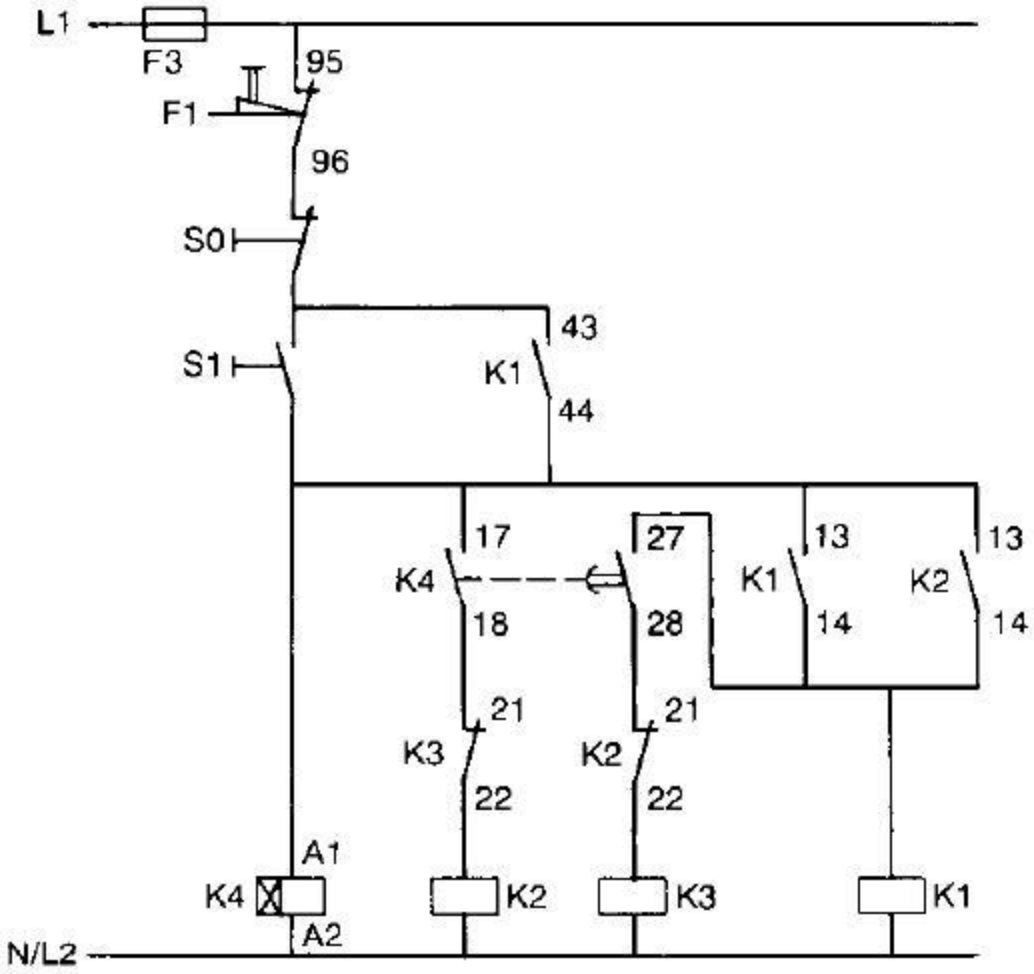

CONTROL WIRING OF STAR DELTA STARTER (OPEN TRANSITION)
PHASE
THERMAL OVER LOAD RELAY
STOP
START
MAIN AUX CONTACT KM3
2
3
TIMER AUX CONTACT KT
4
TIMER AUX CONTACT KT
5
DELTA CONTACT KM2
6
STAR CONTACT KM1
MAIN AUX CONTACT KM3
2
STAR AUX. CONTACT KM1
1
TIMER COIL KT
STAR COIL KM1
DELTA COIL KM2
MAIN COIL KM3
PHASE



Control Circuit Diagram of Automatic Star Delta (Y-Δ) starter with Timer for 3-Phase Motor.

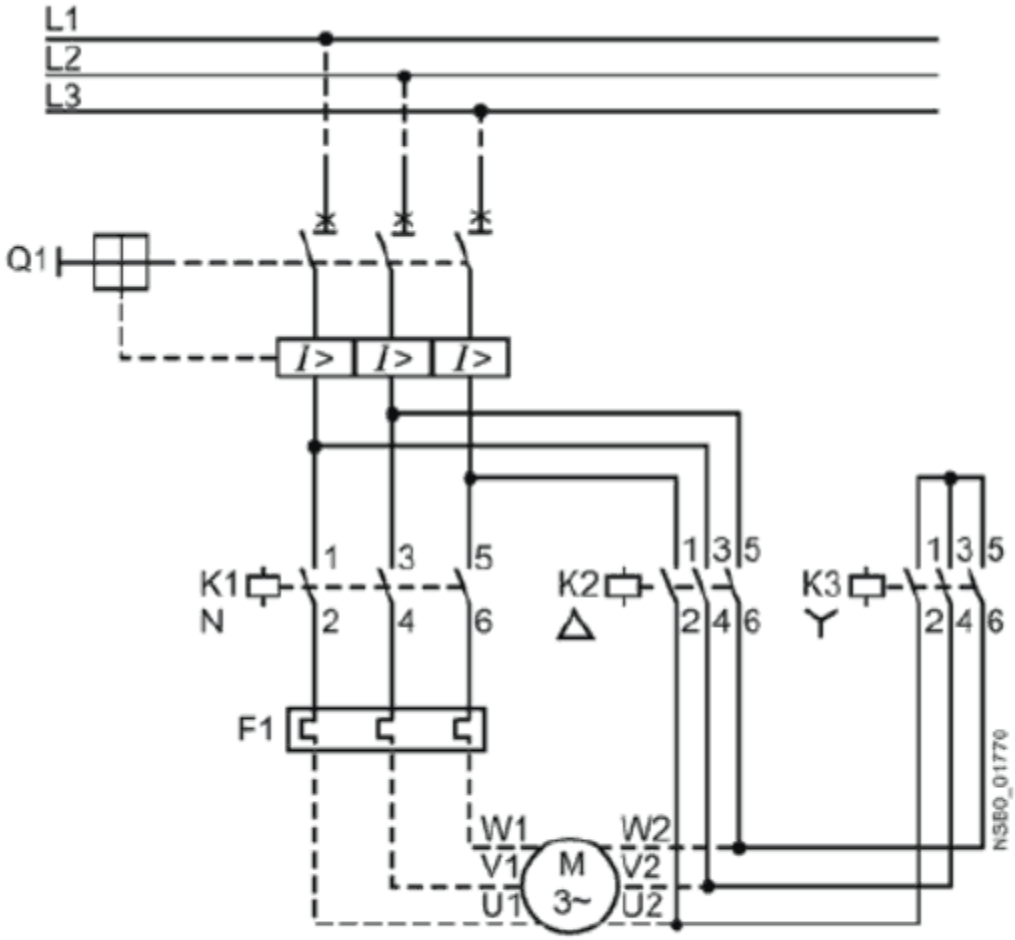


Star-Delta Motor Starter Control Ckt.

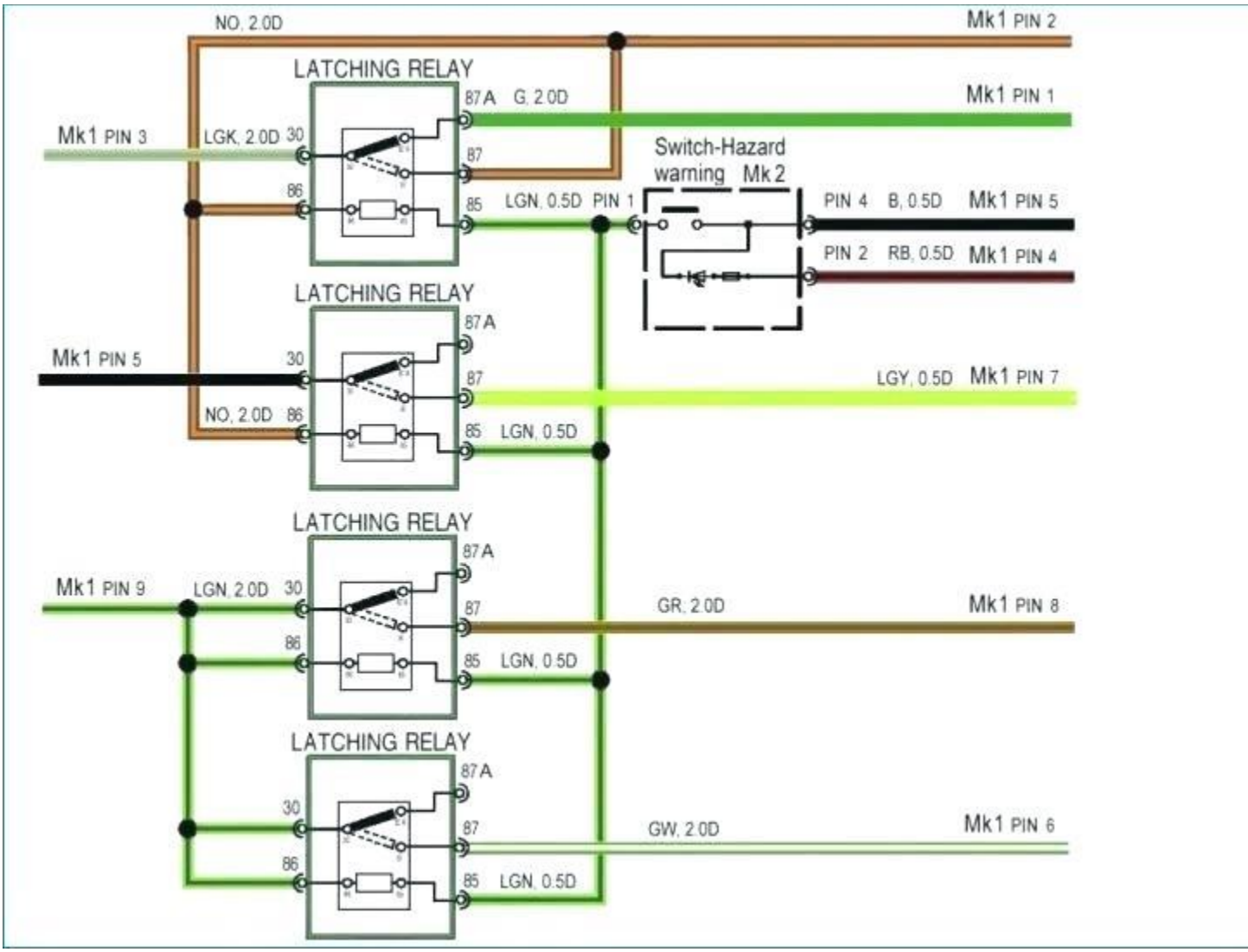


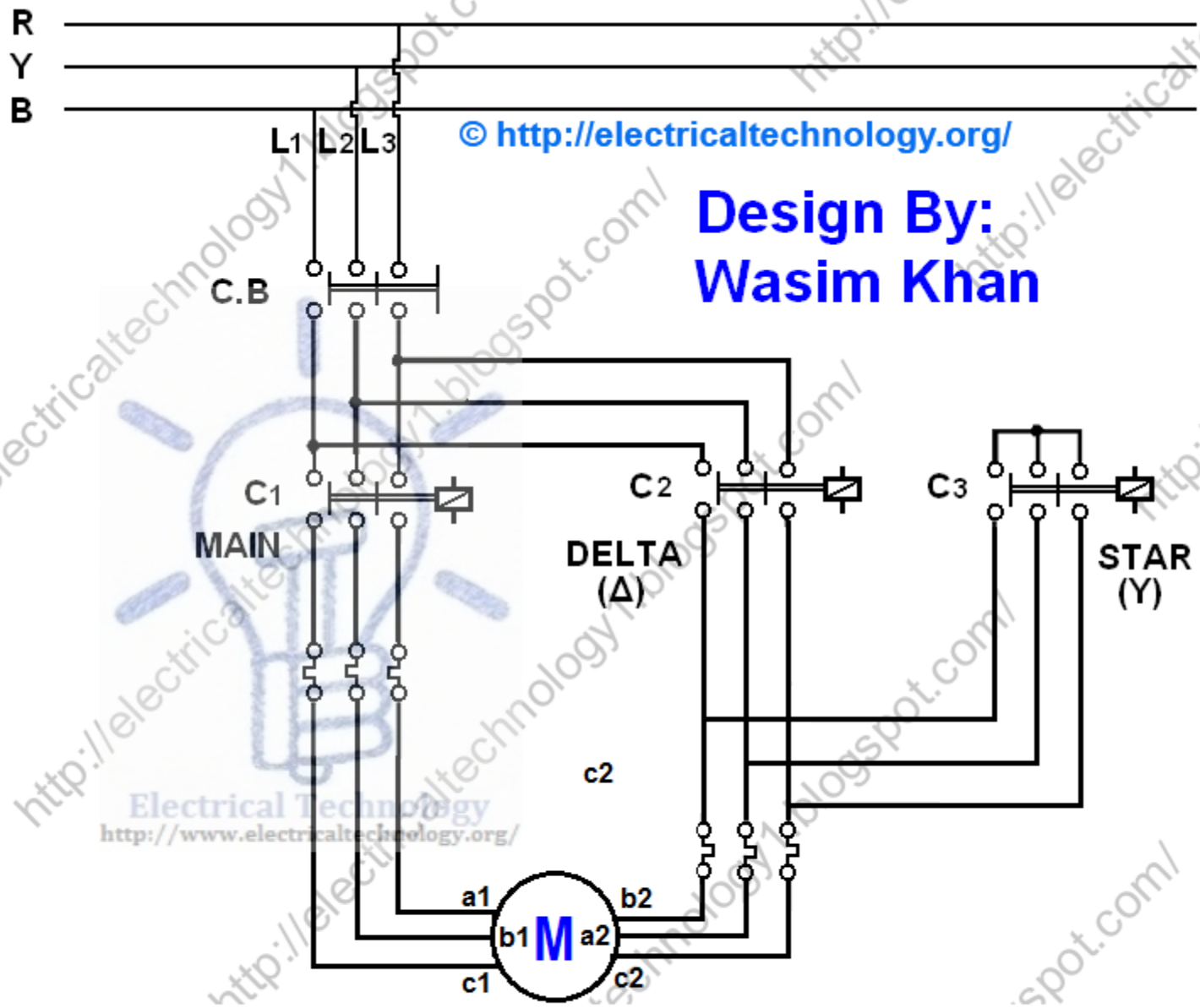
Control circuit for push button control
(momentary command)

S0 = 'OFF'
S1 = 'ON'
K1 = Line c
K2 = Star c
K3 = Delta
K4 = Star c
F2 = Overl
F1 = Backu
F3 = Contr



Circuit diagram main circuit for Y Δ circuit


NO, 2.0D
Mk1 PIN 2
LATCHING RELAY
87A G, 2.0D
Mk1 PIN 1
Mk1 PIN 3
LGK, 2.0D 30
87
Switch-Hazard
warning Mk2
86
85 LGN, 0.5D PIN 1
PIN 4 B, 0.5D Mk1 PIN 5
PIN 2 RB, 0.5D Mk1 PIN 4
LATCHING RELAY
87A
Mk1 PIN 5
30
87
LGY, 0.5D Mk1 PIN 7
NO, 2.0D 86
85 LGN, 0.5D
LATCHING RELAY
87A
Mk1 PIN 9
LGN, 2.0D 30
87
GR, 2.0D
Mk1 PIN 8
86
85 LGN, 0.5D
LATCHING RELAY
87A
30
87
GW, 2.0D
Mk1 PIN 6
86
85 LGN, 0.5D



3 Phase Motor Connection STAR/DELTA Without Timer Power Diagram

SIEMENS
SIEMENS
SIEMENS
POWER
3 HP
DOL
starter
R Y B
MOTOR
MOTOR
R Y B
MOTOR
B R Y
Star& delta
6 H.P